

JOB NO: 7-5130  
ETT 115

BASF  
7/23/96

HER 00959

HER 00960

# Job Workscope/Breakdown

Job No: 7-5130 Date: 7/23/96 Invoice Number: 3495  
 Customer: BASF Barge/M/V: ETT 115

Foreman:	S/T	<u>4</u>	@	38.00	<u>152.00</u>
	O/T	<u>4</u>	@	53.25	<u>213.00</u>
Leadman:	S/T		@	35.00	
	O/T		@	49.50	
Journeyman:	S/T	<u>20</u>	@	32.50	<u>650.00</u>
	O/T	<u>16.5</u>	@	45.75	<u>754.88</u>
Disposal:	Slop Oil		@	0.60	
	Water	<u>3,000</u>	@	0.35	<u>1,050.00</u>
Water:			@	5.00/1,000 gal	
Material:				Plus 25%	
Stock:		<u>34.95</u>		Plus 25% <u>8.75</u>	<u>43.69</u>
Chemist:				Plus 25%	
Equipment:	Compressor	<u>8</u>	@	48.00	<u>384.00</u>
	Air Movers	<u>32</u>	@	5.00	<u>160.00</u>
	Forklift		@	30.00	
	Tugboat		@	100.00	
	Steam Rig	<u>4</u>	@	100.00	<u>400.00</u>
	Vacuum	<u>4</u>	@	30.00	<u>120.00</u>
	Hand Hose	<u>4</u>	@	12.00	<u>48.00</u>
	Weld Machine		@	15.00	
	Cherry Picker		@	70.00	
	Crane		@	130.00	
	3" Gas Pump		@	18.00	
	2" Strip Pump	<u>4</u>	@	15.00	<u>60.00</u>
	Butterworth	<u>10</u>	@	10.00	<u>100.00</u>
	4" Elec. Pump		@	15.00	
	Cutting Rig		@	8.00	
	Haul Out		@	1,100.00	
	Truck		@	25.00	
	Hand Tools		@	10.00	

Total Invoice:

4,135.57

HER 00961

# HERCULES

MARINE SERVICES CORPORATION

P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3495  
DATE : July 31, 1996  
Job No. : 7-5130  
Location : Freeport, TX

TO: BASF  
607 Copper Road  
Freeport, TX 77541

PLEASE REMIT PAYMENTS TO:  
11011 RICHMOND  
SUITE 500  
HOUSTON, TX. 77042

Terms : Net 30

FOR:

Service to the ETT 115 as follows:

Set up equipment  
Strip out all free product  
Cold water wash  
Hot water wash  
Blow cargo pipeline and stripping system  
Vacuum blow dry cargo tanks  
Sweep powder rust from cargo tank floor  
Pressure test cargo pipeline 40 PSI  
Clean off deck  
Ballast with fresh water  
Remove equipment  
Close Barge

LABOR:	Foreman	4 hr.	@	38.00	152.00
		4 hr.	@	53.25 (O/T)	213.00
	Journeyman	20 hr.	@	32.50	650.00
		16.5 hr.	@	45.75 (O/T)	754.88
DISPOSAL:	Water	3,000	@	0.35	1,050.00
STOCK:	34.95	Plus 25%	=	8.74	43.69
EQUIPMENT:	Compressor	8	@	48.00	384.00
	Air Movers	32	@	5.00	160.00
	Steam Rig	4	@	100.00	400.00
	Vacuum	4	@	30.00	120.00
	Hand Hose	4	@	12.00	48.00
	2" Strip Pump	4	@	15.00	60.00
	Butterworth	10	@	10.00	100.00

TOTAL AMOUNT DUE

\$4,135.57

PHONE: (409) 233-6371

HER 00962

Strength through Experience, Equipment, Know-How

# HERCULES OFFSHORE CO.

INVOICE NO. 3495

## MARINE REPAIR

MARINE OPERATIONS FACILITY

ORDER No. 7-5130

CUSTOMER P.O. \_\_\_\_\_

DATE	ORDER WRITTEN <u>7/23/96</u>	ETA
	ARRIVAL	
	COMPLETION DATE	
	DEPARTURE DATE	
	M/V <input type="checkbox"/> BARGE <input checked="" type="checkbox"/>	
	NAME <u>ETT 115</u>	
	LOA	WIDTH
	FOREMAN <u>Claudio Duarte</u>	
	LAST PRODUCT	
	GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/>	CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/>
	HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/>	
	ON WAYS	DATE: _____
	ON WAYS	DATE: _____

CUSTOMER	NAME <u>BASF</u>
	BILLING ADDRESS <u>607 Copper Road</u>
	CITY AND STATE <u>Freeport, Tx 77541</u>
	PHONE NUMBER <u>238-6161</u>
	WORK AUTHORIZED BY <u>R. Peters</u>
	D/T AUTHORIZED BY
	STOCK MATERIAL <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET
	OUTSIDE SERVICES IF YES, LIST <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

### ITEM NUMBERS

- 1 cold water wash
- 2 hot water wash
- 3 strip + blow dry
- 4 (P) Four Pair Respirator Filters, Two (2) White Paper Coveralls and Three pair Rubber Gloves.
- 5
- 6
- 7
- 8
- 9
- 10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Claudio Duarte Date: 7-23-96

HER 00963

# DAILY TIME LOG

DATE:	7-23-86	CUSTOMER:	BAF
JOB NO:		BARGE:	ETT-115

START TIME 12:30 AM

STOP TIME 8:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Chavez	8				
Cruz	8				
Rivera	8				
Quintero	8				
SAUL	6				
Pedro Hernandez	6 1/2				

## MATERIAL LIST:

Four (4) Air Respirator Filters, Two (2) White Paper Coveralls  
+ (3) Three Pair Rubber Gloves.

## JOB DESCRIPTION:

Cold Water Wash, Hot water Wash & Blow Dry

HER 00964

# Stock Use Breakdown

Job No: 7-5130 Customer: BASF Barge: ETT 115

<u>2</u> Coveralls	@	2.85	<u>5.70</u>
Batteries	@	2.25	
<u>4</u> Respirator Filters	@	6.00	<u>24.00</u>
<u>3</u> Gloves	@	1.75	<u>5.25</u>
Flashlights	@	12.00	
Gaskets	@	6.00	
Goggles	@	2.95	
Boots	@	9.00	
Raincoats	@	36.65	
Total			<u>34.95</u>
Plus 25%			<u>8.74</u>
Charge Customer			<u>43.69</u>

HER 00965

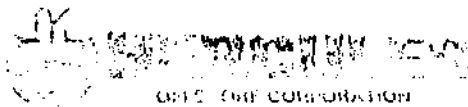
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

| ITEM          | HOURS USED | HOURLY RATE | TOTAL PRICE |
|---------------|------------|-------------|-------------|
| COMPRESSOR    | 8          | 44.00       |             |
| EXCAVATORS    | 32         | 5.00        |             |
| VACUUM        | 4          | 20.00       |             |
| WALKER        | 4          | 80.00       |             |
| WATER HOSE    | 4          | 10.00       |             |
| WATERWORTH    |            | 10.00       |             |
| ELECTRIC PUMP | 4          | 12.00       |             |
| DIESEL PUMP   |            | 14.00       |             |
| ELECT PUMP    |            | 15.00       |             |
| GRANT         |            | 130.00      |             |
| CHERRY PICKER |            | 50.00       |             |
| FORKLIFT      |            | 20.00       |             |
| BOAT          |            | 80.00       |             |
| TRUCK MACHINE |            | 15.00       |             |
| FLING RIG     |            | 8.00        |             |
| TRUCK BARGE   |            | 35.00       |             |
| TOTAL         |            | 1100.00     |             |

7-23-96 JOB NO: 5130 BARGE NAME: E+72-115

HER 00966





P.O. Drawer O  
Freeport, Texas 77541

Strength through experience, equipment, know-how

Office: (409) 233-6371  
Fax: (409) 233-6375

### FINAL CHECK LIST

DATE: 7-23-86

BARGE: ET-115

NUMBER CHECKED 2 REPLACED CASKET YES    NO     
GATE VALVE NUMBER CHECKED 6 REPLACED CASKET YES    NO     
PLUGS NUMBER CHECKED 1 REPLACED PLUG YES    NO     
CHECK VALVE NUMBER CHECKED N/A REPLACED CASKET YES    NO     
DREPWELL BLIND NUMBER CHECKED N/A REPLACED CASKET YES    NO   

BLOW DECK CARGO PIPELINE BLIND NUMBER 2 REPLACED CASKET YES    NO   

BLOW DECK CARGO PIPELINE BLIND REMOVED YES    NO   

DRAIN PANS VALVES: CLOSED BY Quintan

DRAIN PANS COVER: CLOSED BY N/A

CONTAINMENT AREA PLUG OR VALVES: CLOSED BY Quintan

AIR TEST CARGO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: Audie Quintan

ADDRESS: Freeport, Texas

CHECK VALVE CASKET WILL BE REPLACED  
AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING BARGE.

HER 00967

DECLARATION OF INSPECTION  
PRIOR TO BULK CARGO TRANSFER

VESSELS

BASE

ETHEL

TRANSFER FACILITY

HERCULES MARINE BASE FREE DOCK

LOCATION

FREEPORT TX.

The following list refers to requirements set forth in detail in 33 CFR 156.120 and 48 CFR 36.35-30 (printed on reverse). The spaces adjacent to items on the list are provided to indicate that the detailed requirement has been met.

|  | DELIVERER | RECEIVER |
|--|-----------|----------|
| 1. Communication System/Language Fluency (156.120 (m) (p)) | /         | /        |
| 2. Warning Signs and red Warning Signal. (36.35-30)        | /         | /        |
| 3. Vessel Moorings. (156.120 (u))                          | /         | /        |
| 4. Transfer System Alignment. (156.120 (d))                | /         | /        |
| 5. Transfer System; unused components. (156.120 (e))       | /         | /        |
| 6. Transfer Systems; fixed piping. (156.120 (f))           | /         | /        |
| 7. Overboard Discharges/Sea Suction Valves. (156.120 (g))  | /         | /        |
| 8. Hoses or Loading Arms condition. (156.120 (h) (156.170) | /         | /        |
| 9. Hoses; length and support. (156.120 (b) (c))            | /         | /        |
| 10. Connections. (156.120)                                 | /         | /        |
| 11. Discharge Containment System. (156.120 (j) (k))        | /         | /        |
| 12. Scupper or Drainer. (156.120 (x))                      | /         | /        |
| 13. Emergency Shutdown. (156.120 (n))                      | /         | /        |
| 14. Repair Work Authorization. (36.35-30)                  | N/A       | N/A      |
| 15. Boiler and Galley Fire Safety. (36.35-30)              | N/A       | N/A      |
| 16. Fire or Open Flames. (36.35-30)                        | N/A       | N/A      |
| 17. Lighting (connect to service). (156.120 (t))           | /         | /        |
| 18. Safe Smoking Spaces. (36.35-30)                        | /         | /        |
| 19. Split and Emergency shutdown procedures. (156.120 (q)) | /         | /        |
| 20. Sufficient Personnel. (156.120 (o) (s))                | /         | /        |
| 21. Training Conference. (156.120 (q))                     | /         | /        |
| 22. Agreement to begin transfer. (156.120 (r))             | /         | /        |

I do certify that I have personally inspected this facility or vessel with reference to the requirements printed on reverse and that opposite each of them I have indicated that the regulations have been complied with.

Person in Charge Receiving Unit

Charles Quintana

TITLE

FOREMAN

TIME & DATE

7-23-96 = 12:30 PM

Person in Charge Delivering Unit

Charles Quintana

FUEL PERSON

TIME COMPLETED 7-23-96 = 8:30 PM

\* Rules and Regulations for Tank Vessels.

HER 00968

### Barge Cleaning Report

JOB NO 5130 ETA \_\_\_\_\_  
BARGE NO EFT-115 DATE/TIME ARRIVAL 7-23-96 = 12:00  
CUSTOMER BASF DATE/TIME START 7-23-96 = 12:30 PM  
PRODUCT CAPRU EFT-115 DATE/TIME COMPLETE 7-23-96 = 8:30 PM

AMOUNT STRIPPED: 300

CLEANING INST. BY Robert Peter COMPLETION SCH. BY \_\_\_\_\_ OVERTIME AUTH. BY Robert Peter

BARGE INSP. BY DWAYNE DATE/TIME 7:30 RELEASED TO Brown water <sup>IV</sup> DATE/TIME 8:20 PM

DEEPWELL OPENED: YES NA NO \_\_\_\_\_ CLOSED BY \_\_\_\_\_ NEW GASKET: YES \_\_\_\_\_ NO \_\_\_\_\_

BELOW DECK CARGO PIPELINE:

BLIND OPENED: YES ✓ NO \_\_\_\_\_ CLOSED BY Cruz NEW GASKET: YES \_\_\_\_\_ NO \_\_\_\_\_

DECK CHECK VALVE OPENED: YES NA NO \_\_\_\_\_ CLOSED BY \_\_\_\_\_ NEW GASKET: YES \_\_\_\_\_ NO \_\_\_\_\_

DECK HEADER BLINDS OPENED: YES ✓ NO \_\_\_\_\_ INSECTED BY CALEB BRETT \_\_\_\_\_

DECK HEADER DRAIN PLUG OPENED: YES ✓ NO \_\_\_\_\_ CLOSED BY Cruz

VAPOR RECOVERY HEADER OPENED: YES ✓ NO \_\_\_\_\_ CLOSED BY RIVERA NEW GASKET: YES \_\_\_\_\_ NO \_\_\_\_\_

RUST SCALE: YES \_\_\_\_\_ NO ✓ WASHED OUT \_\_\_\_\_ BUCKETED OUT \_\_\_\_\_

NUMBER OF CARGO TANKS 3 CONDITION OF CARGO VALVES GOD

SLOP TANK STRIPPED: YES NA NO \_\_\_\_\_ DRIP PANS STRIPPED: YES ✓ NO \_\_\_\_\_

WEATHER: TEMP 58 RAIN \_\_\_\_\_ FOG \_\_\_\_\_ HUMIDITY \_\_\_\_\_ OVERCAST \_\_\_\_\_ CLOUDY \_\_\_\_\_ CLEAR \_\_\_\_\_

PIPELINE WASHED: YES ✓ NO \_\_\_\_\_ PIPELINE BLOWN: YES ✓ NO \_\_\_\_\_ INSPECTED BY CALEB BRETT \_\_\_\_\_

BOW RAKE CHECKED: YES ✓ NO \_\_\_\_\_ STERN RAKE CHECKED: YES ✓ NO \_\_\_\_\_

VOIDS: YES ✓ NO \_\_\_\_\_ SAFETY EQUIPMENT USED: \_\_\_\_\_

SUMPS INSPECTED: ✓

### NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Date Inspected 7/23/96

Time in: 2010

Time out: 2020

Inspected By: Charles Bennett  
Caleb Brett

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

HER 00969



# Inchcape Testing Services

Caleb Brett

## VISUAL TANK INSPECTION REPORT

|                             |
|-----------------------------|
| YOUR REFERENCE              |
| OUR REFERENCE<br>FP196-1652 |

|                  |                                      |  |                 |
|------------------|--------------------------------------|--|-----------------|
| VESSEL<br>ETT-15 | PRODUCT / CARGO<br>99.9% Cyclohexane | PORT / TERMINAL<br>Hercules-FREEMONT, TX | DATE<br>7-23-96 |
|------------------|--------------------------------------|--|-----------------|

|  |               |  |  |  |  |  |  |
|--|---------------|--|--|--|--|--|--|
| Tank Number                                    | 1,2,3 center  |  |  |  |  |  |  |
| Tank Coating                                   | Mild Steel    |  |  |  |  |  |  |
| Last Cargo                                     | Capro Extract |  |  |  |  |  |  |
| Second Last Cargo                              | Cyclo         |  |  |  |  |  |  |
| Third Last Cargo                               | Cyclo         |  |  |  |  |  |  |
| Time/Date Inspected                            | 7-23-96       |  |  |  |  |  |  |
| Visual Cleanliness <u>Accepted</u> / Rejected* |               |  |  |  |  |  |  |
| Reason for Rejection                           |               |  |  |  |  |  |  |

|   |           |  |
|---|-----------|--|
| Method said to have been used to clean tanks: | TK# 1,2,3 | Cold water washed for 4 hrs ALL TANK + LINES then Hot water washed for 4 |
|   | TK#       | hrs ALL TANK + LINES Blow dry ALL TANK + LINES for 45 minutes per TANK   |
|   | TK#       |  |
|   | TK#       |  |
|   | TK#       |  |
|   | TK#       |  |
|   | TK#       |  |

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

- \* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

*A. Rivera*

*Caleb Brett*  
FOR CALEB BRETT



FP 96-1652

FORM # 2-044-95

HER 00971

HAZARD COMMUNICATION STANDARD  
OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 7-23-96

Plant Harco

Area Free Dock

Supervisor Paul Smith  
Client Safety \_\_\_\_\_

The following listed materials are considered to be hazardous to the employees working in this area:

CAPE Extract

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

| NAME                   | BADGE     | NAME | BADGE |
|------------------------|-----------|------|-------|
| <u>Sail Mendoza</u>    | <u>70</u> |      |       |
| <u>Pedro Hernandez</u> |           |      |       |
| <u>Gregory Cruz</u>    |           |      |       |
|                        |           |      |       |
|                        |           |      |       |
|                        |           |      |       |
|                        |           |      |       |
|                        |           |      |       |
|                        |           |      |       |
|                        |           |      |       |

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**Material Safety Data Sheet**

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PRELIMINARY VERSION

Page : 1

BASF CORPORATION  
3000 CONTINENTAL DRIVE NORTH  
MT. OLIVE, NJ 07828  
(201) 426-4671

Original Date: 09/15/1995

Emergency Telephone: (800) 424-9300 (CHEMTREC)  
(800) 832-HELP (BASF Hotline)

BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, &amp; HOLIDAYS.

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**SECTION 1 - PRODUCT INFORMATION**

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**CAPROLACTAM EXTRACT SOLUTION**

Product ID: KFF 526320

Common Chemical Name:

E-Caprolactam

Synonyms:

2H-Azepin-7-one, hexahydro-2-Oxohexamethylenimine

Molecular Formula:

C(6)H(11)NO (PURE CAPROLACTAM)

Chemical Family: Amide

Molecular Wt.: 113.2

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**SECTION 2 - INGREDIENTS**

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| Chemical Name:            | CAS             | Amount |
|---------------------------|-----------------|--------|
| WATER                     | 7732-18-5       | 20.0 X |
| PEL/TLV NOT ESTABLISHED   |                 |        |
| 2H-AZEPIN-2-ONE, HEXAHYDR | 105-60-2        | 80.0 X |
| ACGIH TLV                 | STEL 3 MG/CU. M |        |
|                           | TWA 1 MG/CU. M  |        |
| OSHA PEL                  | STEL 46 PPM     |        |
|                           | TWA 23 PPM      |        |

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**SECTION 3 - PHYSICAL PROPERTIES**

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Color: Clear  
Form/Appearance: Liquid  
Odor: Putrid  
Odor Intensity: Strong

|                   | Typical       | Low/High | U.O.M. |
|-------------------|---------------|----------|--------|
| Specific Gravity: | 1.056         |          |        |
| pH:               | NOT AVAILABLE |          |        |

|                     | Typical       | Low/High | Deg. | @   | Pressure   |
|---------------------|---------------|----------|------|-----|------------|
| Boiling Pt:         |               | 69 - 268 | C    | 760 | MM HG      |
| Freezing Pt:        | 7             |          | C    | 760 | MM HG      |
| Decomp. Temp:       | NOT AVAILABLE |          |      |     |            |
| Solubility in Water | Description:  | Miscible |      |     |            |
| Vapor Pressure:     | 6             | MM HG    |      | @   | 120 DEG. C |

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**SECTION 3 - PHYSICAL PROPERTIES (cont)**

|                          | Typical | Low/High | U.O.M. | @ Temperature |
|--------------------------|---------|----------|--------|---------------|
| Vapor Density (Air = 1): | 3.9     |          |        |               |
| Evaporation Rate Std.:   | AIR     |          |        |               |

**SECTION 4 - FIRE AND EXPLOSION DATA**

|               | Typical | Low/High | Deg. | Method           |
|---------------|---------|----------|------|------------------|
| Flash Point:  | 139.2   |          |      | C TAG CLOSED CUP |
| Autoignition: | 375     |          |      | C NOT SPECIFIED  |
| Flam. Limits: |         | 1.5 - 8  | %    |                  |

**Extinguishing Media:**

Use water fog, foam, CO2 or dry chemical extinguishing media.

**Fire Fighting Procedures:**

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

**Unusual Hazards:**

When heated to decomposition; hydrogen cyanide, carbon monoxide, and ammonia may be emitted.

**SECTION 5 - HEALTH EFFECTS**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

**Toxicology Test Data:**

Rat, Oral LD50 - 1660 MG/KG

Moderately Toxic

Rat, Oral LD50 - 8.2 MG/KG

Extremely Toxic

Rat, Dermal LD50 - > 2000 MG/KG

Slightly Toxic

**Acute Overexposure Effects:**

Contact with the eyes can result in irritation and possible corneal damage. Prolonged or repeated skin contact can result in contact dermatitis and eczema.

Workers who were exposed to caprolactam vapors have complained of nervousness, heartburn, a heavy feeling in the stomach, stuffy nose and head, nosebleeds, a bitter taste, and dry, splitting lips and nose. Acute overexposure to caprolactam may cause CNS effects, including respiratory stimulation, mild circulatory depression, and convulsions.

**Chronic Overexposure Effects:**

Animal studies indicate that caprolactam may affect the liver and kidneys.

**First Aid Procedures - Skin:**

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

**First Aid Procedures - Eyes:**

Immediately rinse eyes with running water for 15 minutes. If



#### SECTION 5 - HEALTH EFFECTS (cont)

irritation develops, get medical attention.

**First Aid Procedures - Ingestion:**

If swallowed, dilute with water and immediately induce vomiting.

Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

**First Aid Procedures - Inhalation:**

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

**First Aid Procedures - Notes to Physicians:**

None known.

**First Aid Procedures - Aggravated Medical Conditions:**

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to Section 5 (Effects of Overexposure) for effects observed in animals.

**First Aid Procedures - Special Precautions:**

None

#### SECTION 6 - REACTIVITY DATA

**Stability Data:**

Stable; Excessive heat and ignition sources.

**Incompatibility:**

Strong oxidizing agents, acids, and bases.

**Conditions/Hazards to Avoid:**

No data available.

**Hazardous Decomposition/Polymerization:**

Hazardous Decomposition Products: HCN, CO and CO<sub>2</sub>.

**Corrosive Properties:**

Not corrosive to metal.

**Oxidizer Properties:**

Not an oxidizer

#### SECTION 7 - PERSONAL PROTECTION

**Clothing:**

Gloves, coveralls, apron, boots as necessary to minimize contact.

**Eyes:**

Chemical goggles. Also wear a face shield if splashing hazard exists. Use side shield safety glasses when handling lab samples.

**Respiration:**

If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator. Use an air-supplied or self-contained breathing apparatus in emergency or non-routine, high exposure situations.

**Ventilation:**

Use local exhaust to control to recommended P.E.L.

**Explosion Proofing:**

None required.

**Other Personal Protection Data:**

Eyewash fountains and safety showers must be easily accessible.

#### SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

**General:**

Spills should be contained, solidified, and placed in suitable containers for disposal. This material is not regulated under RCRA. There is a one lb statutory RQ assigned for this material.

**Waste Disposal:**

Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

**Container Disposal:**

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

**Environmental Toxicity Test Data:**

Inherent Biodegradability: Zahn-Wellens - > 70 PERCENT

Good Potential for Elimination

Fish Toxicity, LCO, 48 hr. - 1200 MG/L

No Mortality at Highest Conc. tested

Golden orfe, Static 48 hr LC50 - 500 MG/L

Practically Nontoxic

Rainbow Trout, static 96 hr LC50 - 500-1000 MG/L

Practically Nontoxic

Fish Toxicity, LCO, 48 hr. - 500-1000 MG/L

No Mortality at Highest Conc. tested

Chemical Oxygen Demand - 1960 MG O2/G

TEST RATING NOT FOUND

Biological Oxygen Demand, 5 day - 1110 MG O2/G

TEST RATING NOT FOUND

ISO 7827, Degradation Test (DOC) - 608 MG O2/G

TEST RATING NOT FOUND

Acute Algal Toxicity, 48 hr EC50 - > 500 MG/L

TEST RATING NOT FOUND

Algal, 96 hr EC50 - > 500 MG/L

TEST RATING NOT FOUND

#### SECTION 9 - STORAGE AND HANDLING

**General:**

Store materials to avoid sources of ignition and excessive heat.

#### SECTION 10 - REGULATORY INFORMATION

**TSCA Inventory Status**

Listed on Inventory: YES

**RCRA Haz. Waste No.:**

CERCLA: YES Reportable Qty.: (If YES) 5000 LBS

**Hazard Ratings:**

|      | Health: | Fire: | Reactivity: | Special: |
|------|---------|-------|-------------|----------|
| HMIS | 2       | 1     | 0           | NA       |

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

**SECTION 11 - TRANSPORTATION INFORMATION**

**DOT Proper Shipping Name:**

REFER TO BASF BILL OF LADING

**DOT Technical Name:**

REFER TO BASF BILL OF LADING

**DOT Primary Hazard Class:**

REFER TO BASF BILL OF LADING

**DOT Secondary Hazard Class:**

REFER TO BASF BILL OF LADING

**DOT Label Required:**

REFER TO BASF BILL OF LADING

**DOT Placard Required:**

REFER TO BASF BILL OF LADING

**DOT Poison Constituent:**

REFER TO BASF BILL OF LADING

**BASF Commodity Codes:** NA NA **UN/NA Code:** **E/R Guide:**

**Bill of Lading Description:**

FOR THE MOST UP-TO-DATE D.O.T. SHIPPING DESCRIPTION, PLEASE REFER TO THE BASF BILL OF LADING!

"IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL

END OF DATA SHEET

# HERCULES OFFSHORE CO.

INVOICE NO. 3475

## MARINE REPAIR

MARINE OPERATIONS FACILITY

ORDER No. 7-5130

CUSTOMER P.O. \_\_\_\_\_

|      |   |   |
|------|---|---|
| DATE | ORDER WRITTEN   | ETA   |
|      | 7/23/96   |   |
|      | ARRIVAL   |   |
|      | COMPLETION DATE   |   |
|      | DEPARTURE DATE  |   |
|      | M/V <input type="checkbox"/> BARGE <input checked="" type="checkbox"/>                      |   |
|      | NAME  | ETT 115   |
|      | LOA   |   |
|      | FOREMAN   | Claudio Duarte  |
|      | LAST PRODUCT  |   |
|      | GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/>                        | CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/> |
|      | HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/> |   |
|      | ON WAYS   | DATE: _____   |
|      | ON WAYS   | DATE: _____   |

|          |   |   |
|----------|---|---|
| CUSTOMER | NAME  | BASF  |
|          | BILLING ADDRESS                                 | 607 Copper Road   |
|          | CITY AND STATE                                  | Freeport, Tx 77541  |
|          | PHONE NUMBER                                    | 238-6161  |
|          | WORK AUTHORIZED BY                              | U/I AUTHORIZED BY   |
|          | R. Peters                                       |   |
|          | STOCK MATERIAL                                  | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
|          | IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET |   |
|          | OUTSIDE SERVICES IF YES, LIST                   | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
|          |   |   |
|          |   |   |
|          |   |   |

### ITEM NUMBERS

- 1 cold water wash
- 2 hot water wash
- 3 strip + blow dry

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

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